

Populations and evolution

Population genetics

A **population** is a group of organisms of the same species occupying a particular space at a particular time that can potentially interbreed. The total number of alleles that are present in a population is known as the **gene pool** whilst the **allelic frequency** expresses as a decimal or percentage the proportion of a certain allele in a gene pool.

The **Hardy-Weinberg Equation** can be used to **estimate the frequency of alleles in a population** and to see whether a change in allele frequency is occurring in a population over time. In order to do this the following points are assumed:

- **no mutations** occur to create new alleles.
- there is **no movement of alleles** into or out of the population by migration.
- the **population is large**.
- there is **no selection**, so every allele has an equal chance of being passed to the next generation.
- **mating is random**.

The formulae for the Hardy-Weinberg principle are shown below:

$$p + q = 1.0 \text{ AND } p^2 + 2pq + q^2 = 1$$

Where:

p = the frequency of the dominant allele (represented by A)

q = the frequency of the recessive allele (represented by a)

p² = frequency of AA (homozygous dominant)

2pq = frequency of Aa (heterozygous)

q² = frequency of aa (homozygous recessive)

We can now use these equations to determine the probability of any allele in a population. For example, suppose that a particular characteristic is the result of the recessive allele **a**, and we know that one person in 25 000 displays the character.

- The character, being recessive, will only be observed in individuals who have two recessive alleles **aa**.
- The probability of **aa** must be $\frac{1}{25\,000}$ or 0.00004.
- The probability of **aa** is q^2 .
- If $q^2 = 0.00004$, then $q = \sqrt{0.00004}$ or 0.0063 approximately.
- We know that the probability of both alleles **A** and **a** is $p + q$ and is equal to 1.0.
- If $p + q = 1.0$, and $q = 0.0063$ then:
- $p = 1.0 - 0.0063 = 0.9937$, that is, the probability of allele **A** = 0.9937.
- We can now calculate the probability of heterozygous individuals (and therefore the probability of genotypes and phenotypes) in the population.
- From the Hardy-Weinberg equation we know that the probability of the heterozygotes is $2pq$.

Variation in phenotype

- In this case, $2pq = (2 \times 0.9937 \times 0.0063) = 0.0125$.
- Heterozygous individuals act as a reservoir of recessive alleles in the population, although they themselves do not express the allele in their phenotype.

Biology Section 1 Populations Answers

YCT Expert Team



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Population Biology Alan Hastings, 2013-03-14 Population biology has been investigated quantitatively for many decades resulting in a rich body of scientific literature Ecologists often avoid this literature put off by its apparently formidable mathematics This textbook provides an introduction to the biology and ecology of populations by emphasizing the roles of simple mathematical models in explaining the growth and behavior of populations The author only assumes acquaintance with elementary calculus and provides tutorial explanations where needed to develop mathematical concepts Examples problems extensive marginal notes and numerous graphs enhance the book's value to students in classes ranging from population biology and population ecology to mathematical biology and mathematical ecology The book will also be useful as a supplement to introductory courses in ecology

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The Biology of Aquatic and Wetland Plants Gary N. Ervin, 2023-04-26 Aquatic plants play a critically important role in maintaining ecosystem health They are natural biological filters in freshwater and estuarine wetlands they contribute to the reproductive success of many organisms some of which are harvested for food they assist in flood control and they are prominent elements in the aesthetics and recreational use of freshwater and estuarine habitats Despite this globally recognized importance wetlands have faced and continue to face threats from the encroachment of human activities The Biology of Aquatic and Wetland Plants is a thorough and up to date textbook devoted to these plants and their interactions with the environment The focus is on botanical diversity from the perspective of evolutionary relationships emphasizing the role of evolution in shaping adaptations to the aquatic environment

By incorporating recent findings on the phylogeny of green plants with special emphasis on the angiosperms the text is broadly useful for courses in plant biology physiology and ecology Additionally a chapter on population biology and evolutionary ecology complements the evolutionary backdrop of hydrophyte biology by examining the details of speciation and applications of modern genetic approaches to aquatic plant conservation Key Features Synthesizes recent and seminal literature on aquatic and wetland plants Emphasizes evolutionary history as a factor influencing adaptations to the wetland environment Provides a global perspective on plant diversity and threats facing wetland ecosystems Highlights research needs in the field of aquatic and wetland plant biology Includes 280 figures with more than 300 color photographs and 41 tables to provide ease of access to important concepts and information

2024-24 CBSC/NIOS/UP Board Biology Study Material YCT Expert Team , 2024 24 CBSC NIOS UP Board Biology Study Material The Foundations of Population Genetics Daniel M. Weinreich,2023-08-29 An accessible but rigorous treatment of the theoretical foundations of population genetics Population genetics the branch of evolutionary biology concerned with understanding how and why populations genetic compositions change over time rests on a well developed theoretical foundation that draws on genetics mathematics and computer science This textbook provides an approachable but rigorous treatment for advanced undergraduate and graduate students interested in building a quantitative understanding of the genetics of evolution Existing texts either assume very mathematically advanced readers or avoid much of the underlying theory instead focusing on current methods of data analysis In contrast The Foundations of Population Genetics develops the theory from first principles Requiring only confidence in algebra this self contained student friendly book illustrates the conceptual framework terminology and methods of mathematical modeling It progressively introduces concepts from genetics as needed while emphasizing biological implications throughout As a result readers come away with a deep understanding of the structure of population genetics without needing to master its mathematics Connects theory with the most recent genetic data better than existing texts Features engaging real world examples and extensive original figures Provides dozens of carefully scaffolded questions that deepen the reader s understanding of key concepts Ideal as a succinct reference for established scientists in biology medicine and computer science Instructor resources available

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Table of Contents Biology Section 1 Populations Answers

1. Understanding the eBook Biology Section 1 Populations Answers
 - The Rise of Digital Reading Biology Section 1 Populations Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Section 1 Populations Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Section 1 Populations Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Section 1 Populations Answers
 - Personalized Recommendations
 - Biology Section 1 Populations Answers User Reviews and Ratings
 - Biology Section 1 Populations Answers and Bestseller Lists

5. Accessing Biology Section 1 Populations Answers Free and Paid eBooks
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 - Biology Section 1 Populations Answers eBook Subscription Services
 - Biology Section 1 Populations Answers Budget-Friendly Options
6. Navigating Biology Section 1 Populations Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Section 1 Populations Answers Compatibility with Devices
 - Biology Section 1 Populations Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Section 1 Populations Answers
 - Highlighting and Note-Taking Biology Section 1 Populations Answers
 - Interactive Elements Biology Section 1 Populations Answers
8. Staying Engaged with Biology Section 1 Populations Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Section 1 Populations Answers
9. Balancing eBooks and Physical Books Biology Section 1 Populations Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Section 1 Populations Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Section 1 Populations Answers
 - Setting Reading Goals Biology Section 1 Populations Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Section 1 Populations Answers
 - Fact-Checking eBook Content of Biology Section 1 Populations Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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